

WHAT IS CLAIMED IS:

1. A tool assembly comprising a support body, a clamping device,
and a tool holder clamped in the support body by the clamping device;

5 the support body including a groove in which the tool holder is
disposed, the groove including an abutment surface arrangement
against which the tool holder abuts,

the clamping device including:

a stopper block mounted in the groove and abutting against
the tool holder, for positioning the tool holder along an axis;

10 a stopper clamp including:
a first wedge portion wedged in the groove and
arranged to press against the stopper block in a
direction transversely of the axis, and

a first mounting portion having a first through-hole;

15 a first fastener including a first shank extending through the
first through-hole and including a first thread portion threadedly
secured to the support body by a first thread connection to
fasten the stopper clamp to the support body, the first fastener
including a stopper clamp-displacing part for displacing the
20 stopper clamp away from the support body in response to
unscrewing of the first fastener;

a holder clamp including:

a second wedge portion wedged in the groove and arranged to press against the tool holder in a direction transversely of the axis, and

5 a second mounting portion having a second through-hole; and

10 a second fastener including a shank extending through the second through-hole and including a second thread portion secured to the support body by a second threaded connection to fasten the holder clamp to the support body, the second fastener including a holder clamp displacing part for displacing the holder clamp away from the support body in response to unscrewing of the second fastener.

15 2. The tool assembly according to claim 1 wherein each of the first and second fasteners includes a head joined to the shank, wherein each of the clamp-displacing part and the holder clamp-displacing part comprises an elastic element situated between the head and the respective stopper clamp and holder clamp.

20 3. The tool assembly according to claim 2 wherein the elastic element comprises a ring mounted on the shank.

4. The tool assembly according to claim 1 wherein each of the first and second shanks includes both a right-hand thread and a left-hand thread, wherein one of the right- and left-hand threads of the first shank is threadedly connected to the first through-hole and constitutes the stopper clamp-displacing part thereof, and one of the right- and left- hand threads of the
5 second shank is threadedly connected to the second through-hole and constitutes the holder clamp-displacing part thereof.

5. The tool assembly according to claim 1 wherein the holder clamp carries an adjustable pressing bolt arranged to press against a portion of the
10 tool holder.

6. The tool assembly according to claim 5 wherein the tool holder includes a generally V-shaped recess for receiving the pressing bolt.

7. The tool assembly according to claim 1 wherein the stopper block carries an adjusting member engageable with the tool holder for adjusting a
15 position of the tool holder along the axis.

8. The tool assembly according to claim 7 wherein the adjusting member comprises a threaded bolt.

9. The tool assembly according to claim 7 wherein the adjusting member comprises a slidable positioning bar, and a threaded positioning
20 bolt engageable with the positioning bar for adjusting a position of the positioning bar.

10. The tool assembly according to claim 1 further including a spring nut in which the second thread portion is secured, to define the second threaded connection, the second fastener including a head joined to the shank thereof; the holder clamp being secured between the head and the spring nut.

11. The tool assembly according to claim 10 further including a sleeve nut in which the second thread portion is secured, to define the second threaded connection, the second fastener including a head joined to the shank thereof; the holder clamp being secured between the head and the sleeve nut.

12. The tool assembly according to claim 1 further including a spring arranged to yieldably press the holder clamp against the tool holder.

13. The tool assembly according to claim 12 wherein the second through-hole is elongated in a direction enabling the holder clamp to move relative to the second fastener and away from the tool holder when the second fastener is loosened.

14. The tool assembly according to claim 12 wherein the spring extends into a slit formed in the holder clamp.

15. The tool assembly according to claim 12 wherein the spring comprises a leaf spring.

16. The tool assembly according to claim 1 wherein the first fastener constitutes the only fastener securing the stopper clamp to the support body, and the second fastener constitutes the only fastener securing the holder clamp to the support body.

- 5 17. A tool assembly comprising a support body, tool holder, and a holder clamp for clamping the tool holder in the support body;

the support body including a groove in which the tool holder is disposed, the groove including an abutment surface arrangement against which the tool holder abuts,

- 10 the holder clamp including a wedge portion wedged in the groove and arranged to press the tool holder against the abutment surface arrangement;

a releasable fastener securing the holder clamp to the support body;
and

- 15 a spring element arranged to press the holder clamp toward the tool holder to keep the tool holder in place when the fastener is loosened.

- 20 18. The tool assembly according to claim 17, wherein the fastener clamp includes a hole through which the fastener extends, the hole being elongated in a direction enabling the holder clamp to move relative to the fastener and away from the tool holder while the fastener is in a loosened state.

19. A tool assembly comprising a support body, tool holder, and a holder clamp for clamping the tool holder in the support body;

5 the support body including a groove in which the tool holder is disposed, the groove including an abutment surface arrangement against which the tool holder abuts,

the holder clamp including a wedge portion wedged in the groove and arranged to press the tool holder against the abutment surface arrangement;

10 a releasable fastener extending through a hole of the holder clamp for securing the holder clamp to the support body;

wherein the hole is elongated in a direction enabling the holder clamp to move relative to the fastener and away from the tool holder while the fastener is in a loosened state.